E&MJ METAL AND MINERAL MARKETS

Weekly Market Information Issued by the Publishers of Engineering and Mining Journal

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Average Metal Prices (E&MJ) For May, 1950

Copper:	
Electrolytic, Domestic Refinery	19.609
Electrolytic, Export, Refinery	19.876
Lead:	
Common, New York	11.721
Common, St. Louis	11.521
Silver and Sterling Exchange:	
Silver, New York, per oz.	72.614
Silver, London, pence per oz.	63.409
Sterling Exchange, "Checks"	279.750
Zinc:	
Prime Western, East St. Louis	11.973
Tin:	
New York, Straits	77.495
New York, 99% min.	(e) 76.495
Gold, per oz. U.S. price	$35.000
Quicksilver, per flask	70.346
Antimony, (E&M.J.) (d)	27.780
Antimony, bulk, Laredo	24.500
Antimony, in cases, Laredo	25.000
Antimony, Chinese, Spot	Nom'l
Platinum, Refined, per oz.	$66.000
Cadmium (a)	200.000
Cadmium (b)	207.500
Cadmium (c)	215.000
Cobalt, 97%	180.000
Aluminum, 99% plus, ingot	17.192
Magnesium, ingot	20.500
Nickel (f)	40.000

Domestic quotations, unless otherwise stated, are in cents per pound. Sterling exchange, checks, in cents. Quicksilver, per flask of 76 lb. For additional data on grades, premiums, etc., consult notes under "Daily Prices of Metals" on page 3.

(a) Cadmium average based on the producers' quotation.

(b) Cadmium average based on the average of the producers' and platers' quotation.

(c) Cadmium average based on platers' quotation.

(d) Domestic, 5 tons or more but less than carload lot, packed in cases, f.o.b. New York.

(e) Tin contained.

(f) F. o. b. Port Colborne, U. S. duty included.

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Steel Rate at 101.5%

The operating rate of the steel industry for the week beginning May 29 was estimated at 101.5% of capacity, which compares with 101.8% in the preceding week, according to the American Iron and Steel Institute.

Production for the week is estimated at 1,934,000 tons of steel ingots and castings.

Zinc Raised to 13c.—Copper Situation Continues Strong—Lead Price Steady

Zinc moved up another one-half cent a pound during the last week, establishing the quotation on the common grade at 13c., East St. Louis, or 3½c. higher than the low for the year. An extremely tight situation in zinc concentrate is making it difficult for some operators to keep up with the rising market. Copper demands have not diminished and the undertone remains strong. Apprehension over the copper tariff is increasing. Lead presented a more orderly appearance, due in part to the absence of pressure from the Munitions Board for additional supplies for its stockpile. Tin was slightly higher, compared with a week ago. The E&MJ index of non-ferrous metal prices for May was 142.02, against 134.04 in April.

Copper

Though the price situation was strong in all directions, producers maintained the quotation for copper on the basis of 20½c. per pound Valley. The recent rise in prices has not diminished the demand for the metal. Sales of copper for May delivery have moved up to 100,500 tons, with June at 69,500 tons and July at 15,000 tons. From present indications the shipments to fabricators for May will exceed 105,000 tons, market authorities claim. Copper contained in shipments by fabricators to their customers should exceed the month's deliveries by producers by 15,000 tons.

There were no developments in Washington in regard to the legislation that would extend the period of free entry of copper after June 30, 1950. Those who are opposed to the metal's free entry believe that their position has strengthened somewhat in recent weeks because of pressure of other legislation scheduled for prior consideration.

The foreign market was strong, but unchanged at 20½c., f.a.s. New York equivalent.

Lead

Unlike copper and zinc, excitement over the price situation in lead was almost totally absent from the market. Demand was good for the holiday period, with sales for the week that ended yesterday totaling 6,791 tons. This compares with 8,813 tons sold in the preceding week and 10,752 tons two weeks ago. The market was steady at 13c., New York, and 11.80c., St. Louis. The fact that the Government is showing no interest at present in adding to its stockpile of lead tends to obscure the outlook.

Lead for export was quiet. Sellers quote 11½c., f.a.s. Gulf ports, but admit that the price is more or less nominal.

Shipments of automotive replacement batteries by United States manufacturers during April totaled 917,000 units, as against 1,191,000 units (revised) in March and 499,000 units in April a year ago, according to the Business Information Division, Dun & Bradstreet.

Zinc

Consumers of zinc were in the market during the last week for fairly large tonnages for June and July delivery, but found that offerings almost dried up, particularly in regard to the current month. With the Government also looking around for zinc the situation gained further strength and the quotation moved up to 13c. per pound on the Prime Western grade, East St. Louis, on May 29. All business booked on that day at a flat price was at the top level, even though the one-half cent rise did not take place until around noon. Some producers have sold zinc as far ahead as October.

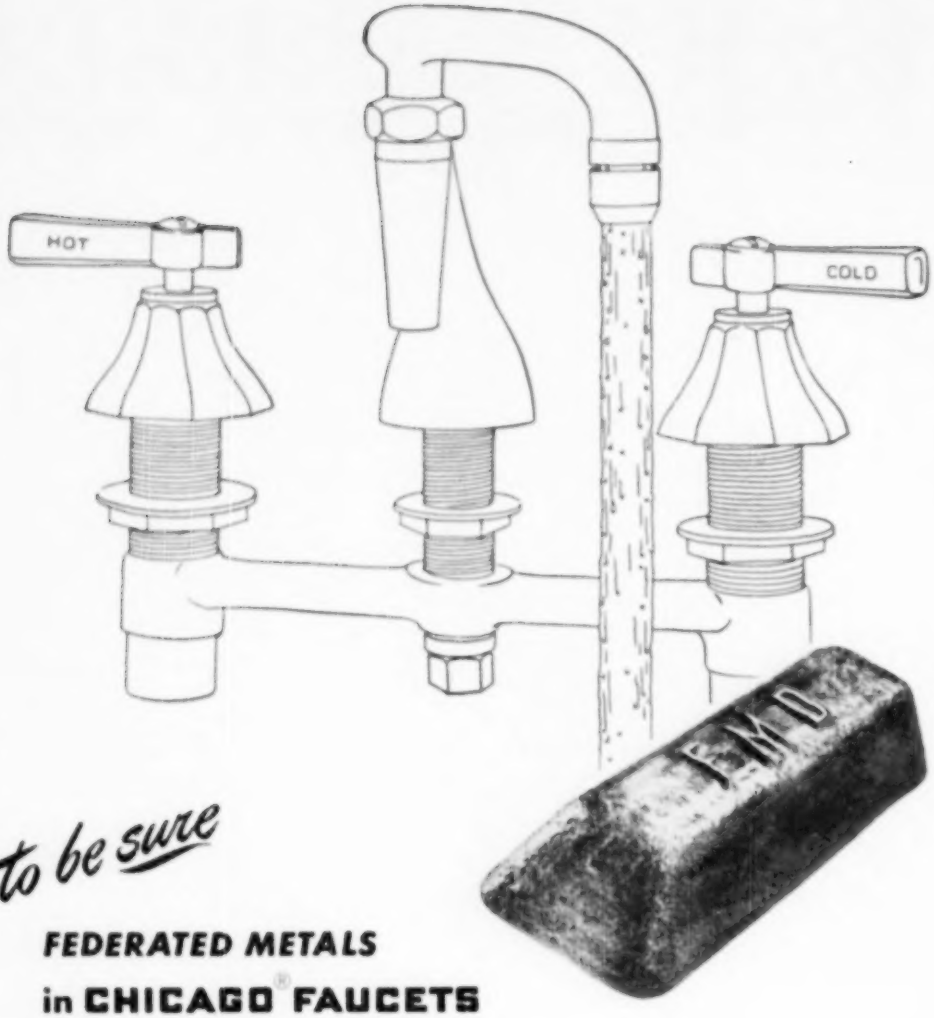
The industry is disturbed over the stockpile program which threatens to remove metal from the market in a period of growing scarcity. The Zinc Industry Advisory Committee is scheduled to meet with the Munitions Board on June 13 to discuss the program for fiscal year 1951.

In the export market business was moderate. The quotation moved up to 12½c., f.a.s. Gulf ports, effective May 29.

Tin

Foreign markets were unsettled early in the week but steadied later. Holidays (Whitsuntide in London and Memorial Day in New York) made for caution among traders. Straits quality tin for prompt delivery was available over most of the week at around 78c., New York, with July about one-quarter cent less.

(Continued on page 5)



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E&MJ METAL AND MINERAL MARKETS

Weekly Market Information Issued by the Publishers of *Engineering and Mining Journal*

ALFRED M. STARRIS, *Publisher*
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E&MJ Metal and Mineral Markets is published each Thursday with a daily quotation for copper, lead, zinc, tin, and silver. Commodities that change price infrequently are quoted at weekly or monthly intervals, according to their importance. Official weekly and calendar weekly averages, and monthly averages, are published for copper, lead, zinc, tin, and silver in the United States market.

Titanium to Profit by Stainless Steel Know-how

A stimulus to titanium metal production is that sponge metal may be satisfactorily melted into ingots for hot and cold working into forgings and sheet in stainless steel mills, rather than handled by the limited and costly techniques of powder metallurgy, according to Alexander Stewart, director of research of the National Lead Co. In a paper on "Trends in the Newer Metals," presented at a recent meeting of the American Institute of Chemists, he points out that this development may mean that during the metal's industrial adolescence it will have the advantage of the facilities and know-how of the stainless steel industry for its fabrication.

Titanium, in terms of its properties, might be regarded as a light-weight "edition" of stainless steel, Mr. Stewart believes. The density of the metal is 4.5, which is midway between aluminum and steel. With small additions of other elements, titanium will develop the tensile strength of some of our best alloy steels, which means that an engine part of equal strength can be appreciably lighter in weight if made from titanium than if made from the best alloys of magnesium, aluminum or steel.

Titanium has been described in popular literature as a "super metal" for high temperature service. This is true up to a certain temperature. For example, titanium has considerably higher strength than the best aluminum and magnesium alloys and may replace them for an important tonnage of aircraft engine parts operating at temperatures up to 800 deg. F.

Titanium alloys readily with most metals. However, Mr. Stewart said, it is still too early to point out the alloy systems which will be of future importance, since the addition of many metals exerts a large influence on properties. The fact that titanium alloys with iron and that it has a phase change that may render alloys susceptible to property variations by heat treatment opens up endless possibilities.

Suggested uses of titanium will undoubtedly take advantage of the high-strength weight ratio of the metal. This ratio is well above that of any structural material now in use.

Corrosion resistance of titanium is good and compares with stainless steel.

Research work going on today includes: (1) Cheaper method of manufacture and purification of $TiCl_4$; (2) electrolytic and other methods of reduction; (3) purification of titanium metal; and (4) alloys of titanium.

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Mufulira Copper Mines

Mufulira Copper Mines, Ltd., produced 53,561 long tons of blister copper in the nine months ended March 31, 1950. Revenue from sales brought in £5,647,500, and operating expenditure was £2,814,500. After adjustments, the estimated profit before taxes was £2,700,000.

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Bauxite in First Quarter

Mine production of bauxite (dried equivalent) in the United States in the first quarter of 1950 totaled 325,025 long tons, which compares with 323,266 tons in the preceding quarter, the Bureau of Mines reports.

Imports of bauxite (as shipped) in the Jan.-March quarter totaled 628,318 tons, against 593,049 tons in the last quarter of 1949. British Guiana supplied 18,775 tons; Surinam 485,973 tons; Indonesia 114,241 tons; Trinidad and Tobago 9,196 tons; and the Dominican Republic 139 tons.

E. & M. J. Weighted Index of Non-Ferrous Metal Prices

100 is composite for 1935-3-4. (Copper, Lead, Zinc, Tin, Silver, Nickel, Aluminum)

1938	73.67	1944	98.74
1939	77.71	1945	98.86
1940	79.22	1946	110.06
1941	83.49	1947	140.46
1942	86.80	1948	168.38
1943	88.74	1949	151.97

	1948	1949	1950
January	154.20	185.52	135.86
February	155.63	185.75	135.65
March	155.63	179.31	132.60
April	160.67	160.86	134.04
May	161.33	148.05	142.02
June	162.30	131.20	.....
July	164.55	136.65	.....
August	177.68	141.90	.....
September	178.26	142.24	.....
October	179.58	137.81	.....
November	185.26	138.18	.....
December	185.52	136.18	.....

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Current Literature

Copper and Copper Alloy Specifications Index. The American Brass Co., Waterbury 20, Conn. Pp. 28.

British Non-Ferrous Metals Directory, 1949. Metal Information Bureau, Ltd., Birkett House, 27 Albermarle St., London, W.1. Pp. 261. Price 10s.

Manganese Ore in First Quarter

During the first quarter of 1950 domestic mines shipped 27,100 tons of manganese ore, which compares with 31,525 tons shipped quarterly in 1949, the Bureau of Mines reports. General imports in the first quarter totaled 391,886 tons, against 510,822 tons in the preceding quarter. During all of 1949 the imports of manganese ore averaged 386,132 tons a quarter. General imports in the Jan.-March period of 1950, in tons, by countries:

	Battery Grade		Other		Totals	
Source	Gross Weight	Mn Content	Gross Weight	Mn Content	Gross Weight	Mn Content
Angola	.....	.....	5,096	2,658	5,096	2,658
Belgian Congo	.....	.....	4,092	1,969	4,092	1,969
Brazil	.....	.....	39,988	18,000	39,988	18,000
Chile	.....	.....	343	168	343	168
Cuba	4,219	2,155	20,759	9,574	24,978	11,729
Gold Coast	10,571	5,973	61,225	29,638	71,796	35,611
Greece	.....	.....	440	178	440	178
India	.....	.....	109,977	52,692	109,977	52,692
Mexico	66	29	5,789	2,600	5,855	2,629
Philippines	.....	.....	504	254	504	254
Turkey	.....	.....	1,075	475	1,075	475
Union of South Africa	.....	.....	121,216	55,602	121,216	55,602
U.S.S.R.	.....	.....	6,532	3,135	6,532	3,135
Totals	14,856	8,157	377,030	177,031	391,886	185,188

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(Continued from page 1)

World production of tin (mine basis) in March was estimated at 13,800 long tons, against 12,600 tons in February, according to the Tin Study Group.

Stocks of refined tin in the hands of the RFC at the end of April totaled 23,488 tons, against 23,396 tons a month previous.

An unofficial estimate in the May issue of "Tin" placed the stockpile of tin in the United States at the end of March at 95,000 tons.

Standard tin on the London Metal Exchange, per long ton, was as follows:

	Standard Tin	
	Spot	3-Months
May 25	£602½	£603¾
May 26	£601	£602½
May 29	Holiday	
May 30	£601¼	£602¼
May 31	£602	£603

Quotations on the 99% grade (tin content): May 25th, 77½c.; 26th, 77c.; 27th, 77c.; 29th, 77½c.; 30th, Holiday; 31st, 77½c.

Chrome Ore

Demand for the better grades of metallurgical chrome ore has improved in recent weeks and prices have steadied.

Statistics for the first quarter indicate that imports totaled 229,902 short tons, which compares wih 213,233 tons in the preceding quarter. Consumption totaled 211,039 tons, of which 101,337 tons was metallurgical ore, 77,582 tons refractory ore, and 32,120 tons chemical. Consumption during the Jan.-March period was the largest in a year, the Bureau of Mines reports. Stocks on hand at the end of March amounted to 671,618 tons, against 756,995 tons at the end of 1949.

Quicksilver

There were no price developments in quicksilver during the last week. Demand was slow, with consumers holding to the view that supplies available are more than ample. Quotations on spot metal continued at $70 to $72 per flask, depending on quantity. In regard to nearby metal, there were sellers at $69.

Silver

The New York market for foreign silver was maintained at 72½c. an ounce troy. The undertone was steady.

London was unchanged at 63½d.

United States Gold Price

The price paid by the United States Treasury for gold purchased by the mints continued at $35 per troy ounce of fine gold, less ¼ of 1 percent.

Actual payment by the United States Treasury for gold in imported and domestic ore or concentrate is at 99.75 percent of the price quoted by the Treasury, which at present is equal to $34.9125 per ounce.

Foreign Exchange

Foreign currencies, in addition to the daily quotation on sterling checks given in the table on this page, were quoted on in terms of dollars as follows:

	Demand
Mexico (silver peso)	11.60c
Canada (dollar) (a)	90¼c

(a) Selling basis, N. Y.

Sterling exchange futures, 60-day and 90-day, nominal.

London cables and checks quoted on even basis throughout week.

Official London Prices

The following delivered quotations have been fixed by the Ministry of Supply for the United Kingdom:

	Per Long Ton		
COPPER	£	s.	d
Electrolytic, high conductivity	170	0	0
Fire refined, high conductivity	170	0	0
Fire refined, high grade	169	10	0
Fire refined, min. 99.1 percent	169	0	0
Fire refined, min. 99.2 percent	168	10	0
Hot rolled black wire rods, English	179	12	6
LEAD			
Soft, foreign duty paid	96	0	0
Soft, Empire	96	0	0
English, refined	97	10	0
ZINC			
Foreign (G.o.b.) duty based	107	10	0
Domestic (G.o.b.)	107	10	0
Prime Western and debased	107	10	0
Refined and electrolytic	108	5	0
Minimum 99.99 percent	109	15	0

DAILY PRICES OF METALS (*E & M J Quotations*)

May	Electrolytic Copper: Domestic Refinery	Electrolytic Copper: Export Refinery	Straits Tin, New York	Lead: New York	Lead: St. Louis	Zinc: East St. Louis
25	20.200	20.425	78.250	12.000	11.800	12.500
26	20.200	20.425	78.000	12.000	11.800	12.500
27	No market	20.425	78.000	12.000	11.800	12.500
29	20.200	20.425	78.125	12.000	11.800	13.000
30	Holiday	20.425	Holiday	Holiday	Holiday	Holiday
31	20.200	20.425	78.125	12.000	11.800	13.000
Average	20.200	20.425	78.100	12.000	11.800	12.700

Average prices for calendar week ended May 27, are: Domestic copper f.o.b. refinery, 20.200c.; export copper f.o.b. refinery 20.425c.; Straits tin, 78.271c.; New York lead, 12.000c.; St. Louis Lead, 11.800c.; St. Louis zinc, 12.333c.; and silver 72.750c.

The above quotations are our appraisal of the major United States markets, based on sales reported by producers and agencies. They are reduced to the basis of cash, New York or St. Louis, as noted. All prices are in cents per pound.

Copper, lead and zinc quotations are based on sales for both prompt and future delivories; tin quotations are for prompt delivery only.

In the trade, domestic copper prices are quoted on a delivered basis; that is, delivered at consumers' plants. As delivery charges vary with the destination, the figures shown above are net prices at refineries on the Atlantic seaboard. Delivered prices in New England average 0.300c. per pound above refinery basis.

Our export quotation for copper reflects prices obtaining in the open market and is based on sales in the foreign market reduced to the f.o.b. refinery equivalent. Atlantic seaboard. On f.a.s. transactions we deduct 0.075c. for lightorage, etc., to arrive at the f.a.s. refinery quotation.

Quotations for copper are for the ordinary forms of wirebars and ingot bars. For standard ingots an extra 0.0675c. per pound is charged, for slabs 0.225c. up, and for cakes 0.275c. up, depending on weight and dimensions; for billets an extra 1.05c. up, depending on dimensions and quality. Cathodes in standard sizes are sold at a discount of 0.125c. to 0.15c. per pound.

Quotations for zinc are for ordinary Prime Western brands. Premiums obtaining over Prime Western zinc in the East St. Louis market on the following grades, in cents per pound: Selected 0.10c.; Brass Special, 0.25c.; Intermediate, 0.5c. High Grade zinc sold on contract, delivered in the East and Middle West, commands a premium of 1.15c. per pound over the East St. Louis basis for Prime Western; on Special High Grade the premium or differential is 1.25c. per pound.

Quotations for lead reflect prices obtained for common lead only. The differential on sales in the Chicago district is 10 points under New York; for New England add 7½ points to the New York basis. Corroding grade commands a premium over common lead of 10 points.

Silver, Gold, and Sterling Exchange

May	Sterling Exchange "Checks"	Silver: New York	Silver: London	Gold London
25	$2.79⅝	72⅝	63½d.	248s.
26	2.79⅝	72⅝	63½d.	248s.
27	Not Quoted			
29	2.79⅝	72⅝	Holiday	Holiday
30	Holiday	Holiday	63½d.	248s.
31	2.79⅝	72⅝	63½d.	248s.

Average silver, 72.750c.; Sterling Exchange 279.750c.

The daily New York silver quotation reported by Handy & Harman is for silver contained in ores and other unrefined silver-bearing materials in cents and one-eighth cent fractions per troy ounce. It is determined by Handy & Harman on the basis of actual sales of bar silver .999 fine in amounts of 50,000 ounces or more for nearby delivery at New York, and is usually one-quarter cent below the price paid for such bar silver, this reduction being allowance for carrying, delivering, and marketing. In addition to foreign silver, the quotations also apply to domestic and Treasury silver if such silver enters into the New York market.

The Treasury's purchase price of newly mined domestic silver was established at 90.5c. per troy ounce, 1000 fine, effective on July 1, 1946 under an amendment to the Silver Purchase Act of July 6, 1939.

London silver quotations are in pence per troy ounce, basic .999 fine.

London gold quotations are per troy ounce, basic 1000 fine.

Sterling quotations represent the demand market in the foreenoon. For premium on cables see Foreign Exchange.

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Miscellaneous Metals

Quotations cover wholesale lots, f.o.b. New York, unless otherwise specified.

ALUMINUM—Per lb., base price, f.o.b. shipping point: 30 lb. ingot, 99% plus, 17½c.; in pigs, 16½c.

Base prices on aluminum ingot of higher purity: 99.75%, 18c.; 99.5%, 18½c.; 99.85%, 19½c.; 99.9%, 20½c.

ANTIMONY—Per lb., 99½% grade:

	Domestic, (a) Boxed, New York	Domestic, (b) Bulk, Laredo
May 25	27.780	24.500
May 26	27.780	24.500
May 27	27.780	24.500
May 29	27.780	24.500
May 30	— Holiday —	
May 31	27.780	24.500

(a) Boxed (224 lb.), 10,000 lb. or more but less than a carload, ex store, New York area. (b) In bulk, carload lots, f.o.b. Laredo, Texas; in cases one-half cent extra.

Chinese antimony—Per lb., min. 99%, in cases f.o.b. N. Y., duty paid 22c.

BISMUTH—Per lb., in ton lots, $2.00.

CADMIUM—Per lb. Commercial sticks, wholesale quantities, delivered:

May 25	$2.00
May 26	2.00
May 27	2.00
May 29	2.00
May 30	Holiday
May 31	2.00

MAGNESIUM—Per lb., f.o.b. producer's plant, ingots (4x16 in.), 99.8 percent, carload lots, 20½c.; 100 lb. or more, l.c.l., 22½c. Extruded sticks, carload lots, 27½c.; 100 lb. or more, l.c.l. 29½c.

NICKEL—Per lb., electrolytic cathodes, f.o.b. Port Colborne, Ont., contract price, 40c., U.S. import duty included. Nickel oxide sinter, 36½c. per lb. of nickel content, f.o.b. Copper Cliff.

PALLADIUM—Per oz. troy, $24.

PLATINUM—Per oz. troy, $66 on wholesale lots; $69 on sales to consumers.

QUICKSILVER—Per flask of 76 lb., $70@$72.

TUNGSTEN—Per lb., 98.8 percent minimum, 1,000 lb. lots, $2.90. Hydrogen reduced tungsten, 99.9 percent plus $4.50.

Quotations on other miscellaneous metals appeared in May 11 issue.

Metallic Ores

Prices in tons of 2,000 lbs., or in "units" of 20 lb., unless otherwise stated.

ANTIMONY ORE—Per unit of antimony contained, 50 to 55 percent, $1.80@$1.90; 58 to 60 percent, $1.90@$2.00; 60 to 65 percent, $2.20@$2.30. Quotations nominal.

CHROME ORE—Per long ton, dry basis, subject to penalties if guarantees are not met, f.o.b. cars New York, Philadelphia, Baltimore, etc.

Indian and Rhodesian:

48% Cr_2O_3, 3 to 1 ratio, lump	$35.00@$36.00
48% Cr_2O_3, 2:1 to 1 ratio	$32.50
48% Cr_2O_3, no ratio	$25.00
South African (Transvaal):	
48% Cr_2O_3, no ratio	$26.00
45% Cr_2O_3, no ratio	$17.50@$19.50
Turkish:	
48% Cr_2O_3, 3 to 1 ratio	$37.50@$38.00
Brazilian:	
44% Cr_2O_3, 3.5 to 1 ratio, lump	(a) $31.00

Domestic, 48%, 3 to 1 ratio, $39 per ton, f.o.b. nearest shipping point. Nominal.

(a) Nominal.

MANGANESE ORE—On long-term contracts involving large tonnages prices wholly nominal and a matter for negotiation. Nearby business, basis 48% Mn, 79.5@81.5c. per long tons unit, c.i.f. U.S. ports (duty included).

TUNGSTEN ORE—Per short ton unit of WO_3, for ore of known good analysis: Chinese, duty paid, New York, $19.50@$20.00. Bolivian, Brazilian, etc., duty paid $19.50@$20.00. Domestic scheelite delivered to buyer's plant, $28.50.

Quotations on other ores appeared in May 11 issue.

Alloys

FERROCHROMIUM—Per lb. of Cr: High carbon (4 to 9% C) 65 to 69% Cr, lump, carloads, delivered Eastern zone, 20.5c.

FERROMANGANESE—Per gross ton, 78@82 percent, $172, seaboard.

FERROMOLYBDENUM, Etc.—Per lb. of Mo contained, f.o.b., shipping point: Ferromolybdenum, 55@65 percent Mo $1.13; calcium molybdate ($CaO\ MoO_3$), 96c.; molybdic trioxide (MoO_3), 94c.

Quotations on non-metallic minerals appeared in May 11 issue.

Tri-State Concentrates

Joplin, Mo., May 27, 1950

Blende	Per Ton
Prime coarse (jig and table, 60% zinc)	$82.50
Flotation, 60% zinc	$82.50
Galena	
Coarse and flotation, 80% lead	$147.67

The recent rise in the price of slab zinc of one-half cent per pound was followed by an upward revision in the open-market quotation for zinc concentrate in the Tri-State district of $7.50 per ton. The new quotation of $82.50 per ton is $27.50 per ton above the low of the year.

Brass Ingot Shipments

Shipments of brass and bronze ingots in April totaled 22,118 tons, against 22,494 tons in March and 10,695 tons in April a year ago, the Ingot Brass and Bronze Industry reports. In the first four months of 1950, shipments by the group totaled 81,973 tons, against 59,727 tons in the same period a year ago. The totals represent in excess of 95% of the deliveries of the entire industry.

Smelters' Copper Scrap Prices

Custom smelters' buying prices for copper scrap, carload lots, refinery:

No. 1 heavy copper and wire, 17½c.; No. 2 heavy copper and wire, 16½c.; Light copper 15½c.; refinery brass, 16c.

Dealers' Scrap Prices

Dealers' buying prices, f.o.b. New York or equivalent freight points, for wholesale quantities in cents per lb.

No. 1 copper wire	15½@16
Heavy copper & wire, mixed	14½@15
Light copper	13½@14
No. 1 composition	12½@13
Composition turnings	12@12½
Cocks and faucets	10½@10¾
Light brass	7½@7¾
Yellow brass turnings, mix	7½@8
Heavy yellow brass, mixed	8½@9
Auto radiators, unsweated	10@10½
Brass pipe, cut	10½@11
Rod brass turnings, No. 1	11@11½
Rod ends, brass	11@11½
New soft brass clips	12½@13
Cast aluminum, mixed	7½@8
Aluminum pistons, clean	7½@8
Aluminum crankcases	8@8½
Aluminum clips, new soft	9½@10
Sheet aluminum, old clean	7½@8
Duralumin clips, new	8@8½
Aluminum turnings, clean	4½@5
Zinc die cast, mixed	4½@5
Zinc die cast, new	7½@8
Old zinc	6@6½
New zinc clips	8@8½
Soft or hard lead	9½@9¾
Battery plates	5½@5¾
Babbitt mixed	8½@8½
Linotype or stereotype	10@10½
Electrotype	8½@9
Solder joints close cut	10½@10¾
Block tin pipe	60@62
No. 1 pewter	40@41
Autobearing babbitt	30@32
Monel clips, new	11@12
Monel sheet, clean	11@12
Monel turnings	8@8½
Nickel clips, new	22@24
Nickel anodes, cast	22@24

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From Morenci come ores unusually free of impurities. Fire refining these ores gives the quality product—P.D.M. Fire Refined Copper—for use in brass mills and foundries in *making* high grade products.

Typical Analysis

Copper	99.93%
Arsenic	.0008
Antimony	.0003
Lead	.0001
Selenium & Tellurium (combined)	.0068

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